AP5010889

ENCLOSURE: 01

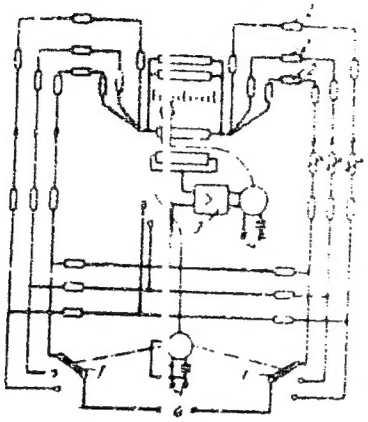


Fig. 1. Multipoint automatic balanced bridge
1- switch contacts; 2- resistances to be measured;
3- zero unit amplifier; 4- power supply

KOL'TSOV, A.A.; VALEYEVA, G.Kh.

Analysis of a measuring circuit for automatic electronic potentiometers for temperature measurements. Izv.vys.ucheb.zav.; prib. 8 no.1:37-42 '65. (MIRA 18:3)

1. Ufimskiy neftyanoy institut. Rekomendovana kafedroy avtomatizatii proizvodstvennykh protsessov.

KOL'TSOV, A.A.; KARABANOV, D.N.

Automatic symmetric balanced bridge. Izv. vys. ucheb. zav.; prib. 8 no.3:29-32 '65. (MIRA 18:11)

1. Ufimskiy neftyanoy institut. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov.

CHEKANOVA, Nina Ignat'yevna, agronom Geroy Sotsialisticheskogo Truda; KOSTROV, Petr Ivanovich; KOL'TSOV, A.D., nauchnyy red.; CHIRKOV, A.Ya., red.; BARANOVA, N.N., tekhn. red.

[Technology of cultivating forage beans]Tekhnologiia vozdelyvaniia kormovykh bobov, Moskva, Proftekhizdat, 1962. 41 p. (MIRA 16:2)

(Broad bean)

BAZHENOV, N.M.; VOL'KENSHTEYN, M.V.; KOL'TSOV, A.I.; KHACHATUROV, A.S.

Investigating polymers by the method of nuclear magnetic resonance. Part 1. Vysokom.soed. 1 no.7:1048-1055 Jl '59. (MIRA 12:11)

1. Institut vysokomolekulayrnkh soyedineniy AN SSSR.
(Polymers)

BAZHENOV, N.M. [deceased]; KOL'TSOV, A.I.; KIRPICHNIKOVA, N.P.; RYSKIN, Ya.I.; STAVITSKAYA, G.P.; BOYKOVA, A.I.; TOROPOV, N.A.

Infrared absorption spectra, proton magnetic resonance, and structure of dicalcium silicates α- and β-hydrates. Izv. AN SSSR. Ser.khim. no.3:409-416 Mr '64. (MIRA 17:4)

1. Institut khimii silikatov im. I.V.Gregenshchikova AN SSSR i Institut vysokomolekulyarnykh soyedineniy AN SSSR.

SHEYNKER, Yu.N.; PERESLENI, Ye.M.; KOL'TSOV, A.I.; BAZHENOV, N.M.
VOL'KENSHTEYN, M.V.

Structure of 2-aminothiazoline. Dokl.AN SSSR 148 no.4:878-880 F '63. (MIRA 16:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR, Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut i Institut vysokomolekulyarnykh soyedineniy AN SSSR. Predstavleno akademikom M.M.Shemyakinym.
(Thiazoline)

BAZHENOV, N.M.; VOL'KENSHTEYN, M.V.; KOL'TSOV, A.I.; KHACHATUROV, A.S.

Nuclear magnetic resonance study of polymers. Part 1: Temperature dependence of molecular mobility in different stereoisomeric forms of poly(methyl methacrylate). Vysokom. soed. 3 no.2:290-291 F '61. (MIRA 14:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.
(Methacrylic acid)
(Nuclear magnetic resonance)

S/190/62/004/006/025/026
B110/B138

AUTHORS: Volkenshteyn, M. V., Kol'tsov, A. I., Marshal', Zh.

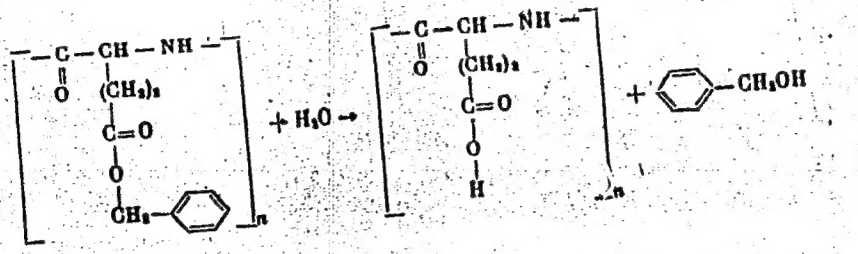
TITLE: Investigation of polymers by means of nuclear magnetic resonance. III. Chemical reactions in solutions of poly-γ-benzyl-L-glutamate in trifluoroacetic acid

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 4, no. 6, 1962, 944-947

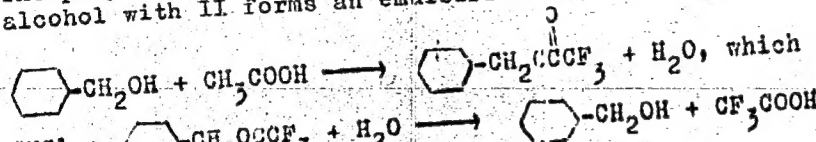
TEXT: The behavior of poly-γ-benzyl-L-glutamate (I) in solutions was investigated with regard to the transition from spirals to lumps. The nuclear magnetic resonance spectra of I (molecular weight 150,000) were obtained in mixtures of benzene and trifluoro acetic acid (II) with a JNM-3 spectrometer at 40 kcps. The spectra remained unchanged with an 80% volume increase of II. With further increase a new line appears $\delta = 60$, while that of the methylene group of I bonded to the phenyl decreases at $\delta = 62$. The same occurs for solutions of I in pure II. Hydrolysis of I is assumed, the molecules losing the rigid spiral shape:

Card 1/3

Investigation of polymers by means ...



The poly-L-glutamic acid formed thereby remains in solution, the benzyl alcohol with II forms an emulsified ester:



hydrolysis of I is much lower than that of the esterification of benzyl

Card 2/3

S/190/63/005/003/019/024
B101/B203

AUTHORS: Abdrashitov, R. A., Bazhenov, N. M., Vol'kenshteyn, M. V., Kol'tsov, A. I., Khachaturov, A. S.

TITLE: Study of polymers by nuclear magnetic resonance. III. Mobility of polyhalogen styrene macromolecules

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 5, no. 3, 1963, 405-411

TEXT: The temperature dependence of the width and of the second moments of the nmr absorption bands of fluorine and hydrogen nuclei was studied in poly-2-fluoro-5-methyl styrene at 20-125°C. The curves $\Delta H_F(T)$ and $\Delta \overline{H_F^2}(T)$ showed distinct transitions at 85 and 115°C, the curves $\Delta H_H(T)$ and $\Delta \overline{H_F^2}(T)$ showed only one indistinct transition at 110°C. The experimental values at 20-80°C are: $\Delta H_F = 5.8 \pm 0.3$ gauss; $\Delta \overline{H_F^2} = 5.0 \pm 0.3$ gauss^2; $\Delta H_H = 8.2 \pm 0.3$ gauss; $\Delta \overline{H_H^2} = 15.2 \pm 0.6$ gauss^2; and at 90-110°C, $\Delta H_F = 5.3 \pm 0.3$ gauss; $\Delta \overline{H_F^2}$

Card 1/2

= 3.6±0.3 gauss^2. A comparison of the experimental values for $\overline{\Delta H_p^2}$ with the values calculated according to J. H. Van Vleck (Phys. Rev., 74, 1168, 1948) suggests a flat syndiotactic chain as the most probable configuration of the polymer. The transition point at 85°C is caused by torsional oscillations. The observed decrease of $\overline{\Delta H_p^2}$ can be explained by cooperative syn-phase torsional oscillations; this is also most probable for steric reasons. The transition point at 115°C is caused by softening. The decrease of $\overline{\Delta H_R^2}$ with increasing temperature is due to another form of intramolecular motion which does not affect $\overline{\Delta H_p^2}$. There are 4 figures and 1 table.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR (Institute of High-molecular Compounds AS USSR)

SUBMITTED: September 20, 1961

Card 2/2

ZAPEVALOVA, N.P.; SOKOLOVA, T.A.; BAZHENOV, N.M.; KOL'TSOV, A.I.

Method of preparing N-substituted β-lactams. Dokl. AN SSSR 150 no.3:551-554 My '63. (MIRA 16:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. Predstavleno akademikom A.Ye. Arbuzovym.

(Lactams)

SOKOLOVA, T.A.; KOL'TSOV, A.I., ZAPEVALOVA, N.P.; OVSYANNIKOVA, L.A.

Interaction of N,N-dimethylhydrazine with derivatives of α,β-unsaturated acids. Izv.AN SSSR.Ser.khim. no.9:1727 S '64. (MIRA 17:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

USTYI ZHANIN, G. Ye.; KOL'TSOV, A.I.; TIKHOMIROVA-SIDOROVA, N.S.; DANILOV, S.N.

Structure of 1,4-xylitane dianhydroxylite and acetals. Zhur. ob. khim. 34 no.12:3905-3907 D '64 (MIRA 18:)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

YERMAKOVA, I.I.; KROPACHEVA, Ye.N.; DOLGOPLOSK, B.A., akademik; KOL'TSOV, A.I., akademik; NEL'SON, K.V.

Interaction of 3-methyl-2-pentene with cation-type catalysts. Dokl. AN SSSR 159 no.4:835-838 D '64 (MIRA 18:1)

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S.V. Lebedeva.

L 40072-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6012417 (A) SOURCE CODE: UR/0183/65/000/006/0022/0026

AUTHOR: Sorokin, A. Ya.; Andreyeva, N. A.; Volkova, L. A.; Kol'tsov, A. I.; Rudakov, A. P.; Pyrkov, L. M.; Frenkel', S. Ya

ORG: IVS AN SSSR

TITLE: Correlation of structural and mechanical characteristics of polyvinyl alcohol fibers. Investigation of supermolecular arrangement in chemical fibers and means of increasing their strength

SOURCE: Khimicheskiye volokna, no. 6, 1965, 22-26

TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure, elongation, rupture strength, correlation function, NMR, X ray analysis

ABSTRACT: The structural and mechanical properties of polyvinyl alcohol fibers were investigated using the range of thermoplasticized stretch as the controllable variable. Correlation between these properties was shown. Linear correlation was established between the overall orientation of the machromolecules in the fiber and orientation of the crystallites; between rupture strength and maximum relaxation stress, and also between these values and the reciprocal half-width reflection

UDC: 677.744.72

Card 1/2

L 40072-66

ACC NR: AP6012417

and the amount of elongation (up to 450% elongation tested). It was shown that the parameter (B_{11}) describes the previous history of the samples with respect to macromolecular orientation. NMR studies showed the basic conformation of the polyvinyl alcohol fiber macromolecules is flat trans-zigzag. A combination of different analytical methods (NMR, X-ray, isothermal heating) can be used to study in succession the structure formation processes at different stages of fiber formation. Orig. art. has: 4 equations, 8 figures and 2 tables.

SUB CODE: 07,11/ SUBM DATE: 09Jun64/ ORIG REF: 011/ OTH REF: 003

Card 2/2 11b

EWP(j)/T Pc-4 RM

ACC NR: AP5025593 SOV/002/0250/0254

[illegible]v, A. I.; Vol'kenshteyn, M. V.

[illegible]termining the degree of orientation of [illegible] in polymer fibers [illegible] of nuclear magnetic resonance

[illegible]ye kom lekulyarnyye soyedineniya, v. [illegible]

[illegible] macromolecule, nuclear magnetic re[illegible]nce, [illegible]er

The authors suggest a means of using nuclear magnetic resonance to [illegible] the degree of orientation of macromolecules of polymeric materials. This [illegible] is based on the measurement of anisotropy in the nuclear magnetic resonance [illegible] of oriented polymers, and is applicable when the distribution function of [illegible]mer chains is unknown. Preliminary calculations have been made for determining the degree of orientation of polyvinyl alcohol, polyacrylonitrile and [illegible] chloride. It is shown that this anisotropy varies substantially for [illegible] and plane polymer chains. The authors point out that it is possible to [illegible] the dominant conformation of polymer chains by comparing experimental [illegible]retical dependence of line anomaly [illegible] nuclear magnetic

ACC NR: AP5005593

on the angle between the magnetic field and the axis of the fiber. The theoretical value of the mean square width of the resonance lines computed by Van Vleck's formula for isotropic material is similar to the experimental value obtained at room temperature for isotropic samples of polyvinyl alcohol fibers. This indicates that no noticeable molecular movement is present in the polyvinyl alcohol, and, by virtue of this, it indicates also that the method employed here is applicable. Orig. art. has: 3 figures and 11 formulas.

ASSOC: Institut vysokomolekulyarnykh soyedineniy, AN SSSR (Institute of Macromolecular Compounds, AN SSSR)

SUBM DATE: 10Apr64 ENCL: 00 SUB CODE: OC, MP

NO REF SOV: 004 OTHER: 010

VOL'KENSHTEYN, M.V.; KOL'TSOV, A.I.; KHACHATUROV, A.S.

Molecular motion in poly-2,5-difluorostyrene as determined by nuclear magnetic resonance. Vysokom. soed. 7 no.2:296-298 F '65. (MIRA 18:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

(A) L 13520-66 EWT(m)/EWP(j)/T RM

ACC NR: AP6001858 SOURCE CODE: UR/0190/65/007/012/2039/2047

AUTHORS: Koton, M. M.; Andreyeva, I. V.; Gotmanchuk, Yu. P.; Madorskaya, L. Ya.; Pokrovskiy, Ya. I.; Kol'tsov, A. I.; Filatova, V. A.

ORG: Institute of High-Molecular Polymers AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Structure of methacrolein polymers, obtained in the presence of anionic catalysts. 3rd report in the series Polymerization of Acrolein and Its Derivatives

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 12, 1965, 2039-2047

TOPIC TAGS: polymerization, polymer structure, reaction mechanism, catalyst/ Nippon Bunko infrared spectrophotometer DS 301, GNM 3 nuclear magnetic resonance spectrometer

ABSTRACT: The structure of polymers obtained from methacrolein and α-ethylacrolein in the presence of sodium naphthalene and sodium trityl using the method described by M. M. Koton, I. V. Andreyeva, and Yu. P. Gotmanchuk (Dokl. AN SSSR, 155, 836, 1964) was investigated. The structure analysis was performed by chemical means: oxime formation, hydrogenation, oxidation with perbenzoic acid, ozonization, as well as by physical means: infrared spectra, using Nippon-Bunko spectrophotometer DS-301, and NMR spectra, using instrument GNM-3. It was established that the rate of conversion of methacrolein and the structure of the obtained polymer are both functions of the polymerization temperature, as illustrated in Fig. 1. Mechanism of the polymerization

UDC: 678.01:53+678.744

L 13520-66

ACC NR: AP6001858

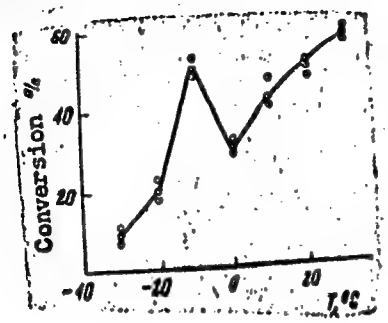
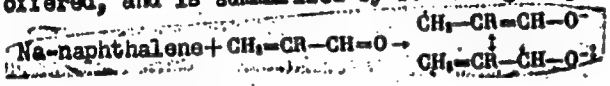
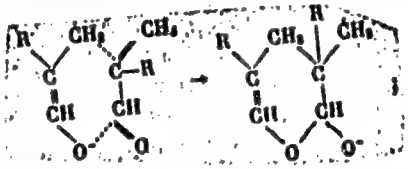


Fig. 1. Degree of methacrolein conversion to polymer within 8 hours as function of temperature. Polymerization conducted in THF in the presence of Na napthalene (1 mol %).

reaction is offered, and is summarized by following steps: 1) initiation



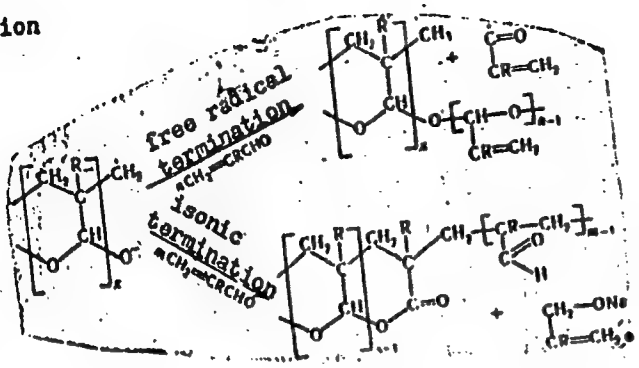
2) propagation



Card 2/3

L 13520-66
ACC NR: AP6001858

3) termination



At OC and above, the termination step occurs mainly along the ionic path. This mechanism explains the formation of the predominantly cyclic structures consisting of condensed tetrahydropyrane rings at temperatures below OC. Orig. art. has: 3 tables, 6 figures, 4 formulas, and 3 equations.

SUB CODE: 11, 07/ SUBM DATE: 01Dec64/ ORIG REF: 005/ OTH REF: 014

Card 3/3 OCR

KOL'TSOV, A.I.

Proton magnetic resonance spectra and structure of the products of reaction of α,β-unsaturated acid anhydrides with asymmetrical dimethylhydrazine. Izv. AN SSSR. Ser. khim. no.8:1350-1357 '65. (MIRA 18:9)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

L 11778-66 EWT(1)/EWT(m)/EWP(j)/EWA(c) IJP(c)/RPL WW/AG/RM

ACC NR: AP6001091 SOURCE CODE: UR/0138/65/000/012/0006/0010

AUTHOR: Khachaturov, A. S.; Vol'kenshteyn, M. V.; Dolgopol'skiy, I. M.; Kol'tsov, A. I.; Berzhenov, N.M. (Deceased)

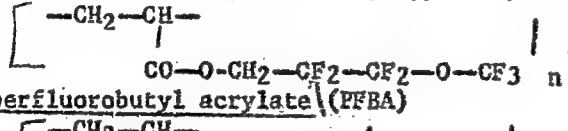
ORG: Institute of High Molecular Compounds, AN SSSR, Leningrad (Institut vysokomolekulyarnykh soyedineniy AN SSSR)

TITLE: Nuclear magnetic resonance study of fluorinated rubbers

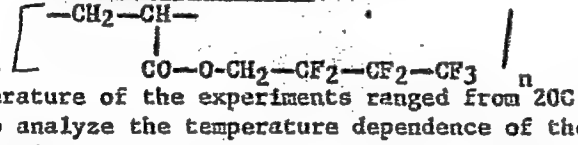
SOURCE: Kauchuk i rezina, no. 12, 1965, 6-10

TOPIC TAGS: nuclear magnetic resonance, synthetic rubber, spectrum analysis, elastomer, fluorinated organic compound

ABSTRACT: Two samples of fluorinated rubberlike elastomers were studied by means of NMR: polyperfluoromethoxyperfluoropropyl acrylate (PFMPA)



and polyperfluorobutyl acrylate (PFBA)



The temperature of the experiments ranged from 20C to the liquid nitrogen temperature. To analyze the temperature dependence of the width of partially superimposed absorption lines, a method was proposed and used in which the width of the spectral

Card 1/2 UDC: 678.743.31-134.341:541.6

L 11778-66

ACC NR: AP6001091

lines was determined from the contour of their outer shoulders. In PFMPA, the fluorine-containing groups separated by an oxygen atom have a much greater mobility than the corresponding groups in PFBA at the same temperatures. Experimental values of the second moments were determined for fluorine and hydrogen nuclei in the temperature range from -50 to -200C for both rubbers. Theoretical values of the second moments were calculated for rubbers in the hard, nonelastic state. It was shown by comparison that only the terminal CF3-O- group retains its capacity to move at -180C. Orig. art. has: 4 figures.

SUB CODE: 11, 20 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 012

NW

Card 2/2

ZARUBINSKIY, G.M.; KOL'TSOV, A.I.; ORESTOVA, V.A.; DANILOV, S.N.

Fluoro derivatives of polyhydric alcohols. Part 1: Ketals of glycerol and α-chlorohydrin with trifluoroacetone. Zhur. ob. khim. 35 no.9:1620-1625 S '65. (MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

L 40072-66 EWT(m)/EWP(j)/T IJP(c) RM

ACC NR: AP6012417 (A) SOURCE CODE: UR/0183/65/000/006/0022/0026

AUTHOR: Sorokin, A. Ya.; Andreyeva, N. A.; Volkova, L. A.; Kol'tsov, A. I.; Rudakov, A. P.; Pyrkov, L. M.; Frenkel', S. Ya

ORG: IVS AN SSSR

TITLE: Correlation of structural and mechanical characteristics of polyvinyl alcohol fibers. 15 Investigation of supermolecular arrangement in chemical fibers and means of increasing their strength 15

SOURCE: Khimicheskiye volokna, no. 6, 1965, 22-26

TOPIC TAGS: polyvinyl alcohol, synthetic fiber, polymer structure, elongation, rupture strength, correlation function, NMR, X ray analysis

ABSTRACT: The structural and mechanical properties of polyvinyl alcohol fibers were investigated using the range of thermoplasticized stretch as the controllable variable. Correlation between these properties was shown. Linear correlation was established between the overall orientation of the machromolecules in the fiber and orientation of the crystallites; between rupture strength and maximum relaxation stress, and also between these values and the reciprocal half-width reflection

UDC: 677.744.72

Card 1/2

L 40072-66

ACC NR: AP6012417 O

and the amount of elongation (up to 450% elongation tested). It was shown that the parameter (B_{ij}) describes the previous history of the samples with respect to macromolecular orientation. NMR studies showed the basic conformation of the polyvinyl alcohol fiber macromolecules is flat trans-zigzag. A combination of different analytical methods (NMR, X-ray, isothermal heating) can be used to study in succession the structure formation processes at different stages of fiber formation. Orig. art. has: 4 equations, 8 figures and 2 tables.

SUB CODE: 07,11/ SUBM DATE: 09Jun64/ ORIG REF: 011/ OTH REF: 003

Card 2/2 11b

KHEYFETS, O.M.; KHROMOV-BORISOV, N.V.; KOL'TSOV, A.I.

Structure of 4,6-dihydroxypyrimidine and its N-methylated derivatives. Dokl. AN SSSR 166 no.3:635-638 Ja '66.
(MIRA 19:1)

1. 1-y Leningradskiy meditsinskiy institut im. I.P.Pavlova.
Submitted May 20, 1965.

Kol'tsov, A. V.

44-1-33

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1, p 4 (USSR)

AUTHOR: Kol'tsov, A.V.

TITLE: Some Material for a Biography of Academician A.A. Markov (Nekotoryye materialy k biografii akademika A.A. Markova)

PERIODICAL: V sb:: Vopr. istorii yestestvozn. i tekh., Nr 1, Moscow, AN SSSR, 1956, pp 204-207

ABSTRACT: Several documents from the Archives of the Academy of Sciences of the USSR are discussed. They characterize the struggle of Academician A.A. Markov against reactionary measures of the Czarist government (and of some academicians) directed against science and education.

G.R.

Card 1/1

SOV/124-57-7-7457

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 2 (USSR)

AUTHOR: Kol'tsov, A. V.

TITLE: The Organizational Activities of A. N. Krylov at the Academy of Sciences During the Period 1918-1920 (Organizatsionnaya deyatel'nost' A. N. Krylova v Akademii nauk v 1918-1920 gg.)

PERIODICAL: Tr. In-ta istorii yestestvozn. i tekhn. AN SSSR, 1956, Vol 15, pp 46-53

ABSTRACT: Bibliographic entry

Card 1/1

Kol'tsov, A.V.

KOL'TSOV, A.V., kand.istoricheskikh nauk.

During the first years following the October Revolution; according to the archives of the Academy of Sciences of the U.S.S.R. Vest. AN SSSR [27] no.10:151-155 O '57. (MIRA 10:10)
(Academy of Sciences of the U.S.S.R.)

PREDTECHENSKIY, A.V.; KOL'TSOV, A.V.

History of the Academy of Sciences of the U.S.S.R. in the works of Soviet scientists. Vop. ist. est. i tekh. no.6:151-159 '59.
(MIRA 12:6)
(Academy of Sciences of the U.S.S.R.)

KOL'TSOV, A.V. (Leningrad)

"Leningrad University" by V.V. Mavrodin, N.G. Sladkevich, L.A. Shilov. Reviewed by A.V. Kol'tsov. Vop.ist.est.i tekh. no.9:182-183 '60. (MIRA 13:7)
(Leningrad University) (Mavrodin, V.V.) (Sladkevich, N.G.) (Shilov, L.A.)

KUDRYAVTSEVA, T.S.; KOL'TSOV, A.V.

Two Lomonosov anniversaries. Vest. AN SSSR 31 no.11:77-80 N '61. (MIRA 14:11)
(Lomonosov, Mikhail Vasil'evich, 1711-1765)

PREDTECHENSKIY, A.V. (Leningrad); KOL'TSOV, A.V. (Leningrad)

Publication of the "History of the Academy of Sciences of the U.S.S.R.". Vop.ist.est. i tekh. no.11:173-174 '61. (MIRA 14:11)
(Academy of Sciences of the U.S.S.R.)

KOL'TSOV, A.V., kand. istoricheskikh nauk

Lenin's care for the progress of science; materials of the Archives of the Academy of Sciences of the U.S.S.R. Vest. AN SSSR 35 no.4:11-16 Ap '65. (MIRA 18:6)

KOL'TSOV, A.V., kand. istoricheskikh nauk

Documents on the fortitude of scientists; materials of the Archives of the Academy of Sciences of the U.S.S.R. Vest. AN SSSR 35 no.5:27-31 My '65. (MIRA 18:6)

KOL'TSOV, B.

AUTHOR: Kol'tsov, B., Engineer 25-2-15/43

TITLE: A Giant Crane (Kran-Gigant)

PERIODICAL: Nauka i Zhizn', 1958, # 2, p 47 (USSR)

ABSTRACT: The concrete pouring operations for the construction of the Bratsk Hydroelectric Power Plant - the largest in size and capacity of the USSR - will be carried out by a new 430 ton double-cantilever gantry crane. It will have a cantilever boom of 50.5 m and a lifting power of 22 tons - its productivity will amount to 24,000 cu m of concrete per month. The task of designing and building the various parts of this crane was assigned to the Leningrad Plant for Hoisting and Transport Equipment imeni S.M. Kirov (Leningradskiy zavod pod'yemno-transportnogo oborudovaniya imeni S.M. Kirova); the electric motors will be delivered by the Leningrad plant "Elektrosila" and the Moscow plant "Dinamo".

There are two sketches.

AVAILABLE: Library of Congress

Card 1/1

TOLSTOVA, A.I., inzhener-metodist; Bol'shakov, A.A.; Kol'tsov, B.F.

From practices of industrial innovation. Tekst.prom. 19 no.4:70-74 Ap '59. (MIRA 12:6)

1. Tashkentskiy khlopchatobumazhnyy kombinat (for Tolstova).
(Cotton manufacture) (Efficiency, Industrial)

KOL'TSOV, B. (g.Lyubertsy, Moskovskoy oblasti)

Pocket receiver with germanium triodes. Radio no.12:56 D '55.
(Radio--Receivers and reception)(Germanium triodes) (MLRA 9:4)

Kol'tsov, B.

AUTHOR: Kol'tsov, B. 107-9-42/53

TITLE: Application of Ceramic Capacitors (Primeneniye varikondov)

PERIODICAL: Radio, 1957, # 9, p 53-54 (USSR)

ABSTRACT: The article deals with the application of ceramic capacitors and refers to the article of T. Verbitskaya and V. Kul'tsep, published in "Radio" # 11, 1955. Further a reference is made to an inserted page in the center of subject periodical, where the main data of ceramic capacitors manufactured by the Soviet industry are listed.

The "BK1-1", "BK1-2","BK1-3" and "BK1-4" types are disc shaped with two wire leads. The small sized "BK1-M" type has a diameter of 2 mm and is contained in a plastic holder with pressed-in wire leads. The "BK1-B" type is disc-shaped and has tape leads. Several elements of the latter type may be assembled in one block for increasing the capacitance. The capacitors are coated by a red varnish to protect them from humidity.

There are 10 figures.

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Card 1/1

KOL'TSOV, B.V.

9(4) PHASE I BOOK EXPLOITATION SOV/1778

Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti. Moskovskoye pravleniye

Tranzistornaya elektronika v priborostroyenii; sbornik trudov konferentsii (Transistor Electronics in the Instrument-making Industry; Collection of Conference Transactions) Moscow, Oborongiz, 1959. 289 p. 1,400 copies printed.

Ed.: N.I. Chistyakov, Doctor of Technical Sciences, Professor; Ed. of Publishing House: S.D. Khametova; Tech Ed.: V.P. Rozhin; Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: The book is intended for scientific and engineering personnel of the instrument-making and radio industries engaged in the development of electronic and radio equipment.

COVERAGE: The authors of this collection of articles discuss the theory, principle of operation, calculation and application of electronic circuits using transistors. They also describe transistor application in measuring circuits, computers, radio and automatic and remote control circuits. The book is based on transactions of the Scientific and Engineering Conference organized by NTO in Moscow in December 1956. The conference discussed 54 papers on thermistors, photocells, thermocouples, cooling elements, nonlinear capacitors, crystal diodes, and transistors. A considerable number of these papers have been included in the present book. No personalities are mentioned. References appear at the end of each article.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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6-8-59

KOL'TSOV, Boris Vasil'yevich; SOBOLEVSKIY, A.G., red.; LARIONOV, G.Ye., tekhn.red.

[Miniature loudspeakers for transistorized radio receivers] Miniaturnye gromkogovoriteli dlia priemnikov na tranzistorakh. Moskva, Gos.energ.izd-vo, 1960. 45 p. (Massovaia radiobiblioteka, no.361). (MIRA 13:6)

(Loudspeakers) (Transistor radios)

KOL'TSOV, Boris Vasil'yevich; MOLOKANOV, Petr L'vovich; LUGVIN, V.G., red.; LARIONOV, G.Ya., tekhn. red.

[Diagrams, networks, and components of transistor radios] Skhemy, uzly i detali priemnikov na tranzistorakh. Moskva, Gos. energ. izd-vo, 1962. 94 p. (Massovaia radiobiblioteka, no.432) (MIRA 15:4)

(Transistor radios)

KOL'TSOV, B.V.

New principles for designing transducers for measuring displacements and accelerations. Nauch.soob.IGD 14:77-87 '62.
(MIRA 16:1)

(Vibration—Measurement) (Transducers)

MIKHAYLOV, Aleksandr Konstantinovich; KOL'TSOV, F.E., red.; STEPANOV, N.S., tekhn. red.

[New building materials made of local raw material] Novye stroitel'nye materialy iz mestnogo syr'ia. Cheboksary, Chuvashskoe gos. izd-vo, 1961. 105 p. (MIRA 15:11)
(Chuvashia--Building materials industry)

Kol'tsov, G.V.

KOL'TSOV, G.V.

The Voronezh White (Peski) hens. Ptitsevodstvo 8 no.3:38-40 Mr '58.
(Voronezh Province--Poultry breeds)

KOVAL'SKIY, V.V.; REZAYEVA, L.T.; KOL'TSOV, G.V.

Trace element content in the organism and blood cells of ascidians.
Dokl. AN SSSR 147 no.5:1215-1217 D '62. (MIRA 16:2)

1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR. Predstavleno akademikom A.P. Vinogradovym.
(Trace elements in the body) (Tunicata)

KOL'TSOV, I.

Contribution of trade-union organizations to the improvement of public areas and services in the city. Zhil.-kom.khoz. 10 no.9:25-26 '60. (MIRA 13:9)

1. Predsedatel' Gruppovogo komiteta profsoyuza rabochikh mestnoy promyshlennosti i kommunal'nogo khozyaystva.
(Perovo--Municipal services)

KOL'TSOV, I.F.

Improve the design of lubricators. Bezop. truda v prom. 2 no.12:36 D '58. (MIRA 11:12)

1.Inzhener-kontroler Upravleniya Severo-Kavkazskogo okruga Gosgortekhnadzora RSFSR.
(Oil well drilling---Equipment and supplies)

ZHEVNOVATYY, A.I.; VOLKOV, V.N.; PEVZNER, I.Z.; Prinimali uchastiye: KRUK, O.P.; KRUTITSKIY, V.M.; KOL'TSOV, I.M.; TSVETKOV, F.A.

Effect of elastic ultrasonic waves on reducing the speed of scale formation. TSvet. met. 35 no.3:48-53 Mr '62. (MIRA 15:4)

(Ultrasonic waves—Industrial applications)

KOL'TSOV, I.N., inzhener (Ufa).

Efficient placement of railroad car maintenance points. Zhel.dor. transp.38 no.12:28-31 D '56. (MLRA 10:2)
(Railroads--Cars--Maintenance and repair)

KOL'TSOV, I.N.

Shortened working day and shift schedule. Zhel.dor.transp. 42 no.8:73-75 Ag '60. (MIRA 13:8)

1. Kontrol'nyy normirovshchik promyvochno-proparochnoy stantsii, stantsiya Chernikovka-Vostochnaya.
(Railroads—Employees—Hours of service)

KOL'TSOV, K.S.; PLANOVSKIY, A.N.

Effect of the concentration and the physicochemical properties of mixtures being separated by rectification on the mass transfer coefficient. Khim. prom. no. 7:573-577 O-N '60. (MIRA 13:12)

(Distillation, Fractional) (Mass transfer)

BOYARCHUK, P.G., kand. tekhn. nauk; KOL'TSOV, K.S., kand. tekhn. nauk

Distribu or for film tubular rectification columns. Khim. i neft. mashinostr. no.6:6-7 D (64 (MIRA 18:2)

KOL'TSOV, M.

Utilization of the waste heat of stationary engine cooling water for the heating of workshops. MTS 14 no.3:30 Mr '54. (MLRA 7:4)

1. Voronezhskiy sel'skokhozyaystvennyy institut. (Hot-water heating)

KOL'TSOV, M., inzhener.

Review the planning of production norms for grains elevators.
Muk.-elev.prom.22 no.7:14-15 Jl '56. (MLRA 9:9)

1.Kuybyshevskoye otdeleniye Promzernoproyekt.
(Grain elevators--Production standards)

KOL'TSOV, M.

Consolidate attained successes. Voen. znan. 34 no.8:19 Ag '58.
(MIRA 11:12)

1. Instruktor Bryanskogo oblastnogo komiteta Dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu.
(Sports) (Military education)

KOLTSOV, M.

"Drifting Radio-Range Beacons in the Ocean," Morskoy Flot., No.4, 1948

KOL'TSOV, M.

Fate of a diary. Voen. znan. 38 no.10:18 O '62. (MIRA 15:10)
(Shuleiko, Nikolai Ivanovich)

VYDREVICH, B.I.; KARANDASHOV, Yu.I.; GAVRILIN, L.F.; BLIZNYUK, V.A.; KOL'TSOV, M.M.; YAVNILOVICH, Ya.A.; FROLOVA, L.A.; MOSYAKOV, Yu.F.

[Metal products for industrial use; a handbook] Metalloizdeliia promyshlennogo naznacheniia; spravochnik. Pod red. E.A.IAvnilovicha. Moskva, Metallurgiia, 1966. 727 p. (MIRA 19:1)

SOV/84-58-7-30/46

AUTHOR: Kol'tsov, N.

TITLE: No Accident in Ten Years (Za desyat' let-- ni odnoy avarii)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 7, p 34 (USSR)

ABSTRACT: A short report on an unidentified operational unit of the Aeroflot under G. Serzhantov, commending the unit and a number of its workers for their performance which insures accident-free operation.

Card 1/1

SOV/85-58-9-9/33

AUTHOR: Kol'tsov, N., Judge of the Republic Category

TITLE: New Records of Model-aircraft Builders (Novyye rekordy aviamodelistov)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 9, p 5 (USSR)

ABSTRACT: The author describes contests in aircraft and helicopter model building held to commemorate the anniversary of the VLKSM.

Card 1/1

RABINOVICH, R.I. Prinimali uchastiye: ALEGLAN, L.K., kand. sel'khoz. nauk; BARABANOVA, N.N.; BOSENKO, K.S.; VINNIK, V.V.; GRIGORCHUK, Ye.V.; GUMEROV, A.Kh.; DOBROCHASOV, D.F.; ZAMURAYEV, I.V.; ZAYTSEVA, A.G., kand. sel'khoz. nauk; KOL'TSOV, N.A.; LEVITIN, Kh.Z., kand. biol. nauk; LISITSKIY, B.Ya.; MATYASH, G.P.; MENTOV, A.V.; RABINOVICH,R.I.; SAL'NIKOV, V.V.; SVECHNIKOV, I.V.; SIMONOV, P.K.; SMIRNOV, V.V.; SMIRNOV, L.P.; SMIRNOVA, V.I.; STEPANOVA, V.I.; TARASOV, A.A.; FILATOVICH, V.V., kand. sel'khoz. nauk; FEDOROV, N.G., kand. tekhn. nauk; TSAPLIN, M.F.; KHROMOV, L.V.; DAVYDOVA, I., red.; PAL'MINA, N., tekhn. red.

[Sverdlovsk in Agricultural Exhibition of 1959] Sverdlovskaia sel'-khoziaistvennaia vystavka. Sverdlovsk, Sverdlovskoe knizhnoe izd-vo, 1960. 131 p. (MIRA 14:10)

1. Sverdlovsk. Sverdlovskaya oblastnaya sel'skokhozyaystvennaya vystavka, 1959.
(Sverdlovsk—Agricultural exhibitions)

KOL'TSOV, N.I., inzhener (g. Ufa)

Improving local planning in the railroad car industry. Zhel. dor. transp. 38 no.9:81-82 S '56. (MLRA 9:10)

(Railroads--Cars--Construction)

BUSHUNOV, V.T.; KOL'TSOV, N.I., kand. tekhn. nauk, retsenzent; RATNER, A.I., inzh., red.; MIKHEYEVA, R.N., red.izd-va; SIMONOVSKIY, N.Z., red.izd-va; SHCHETININA, L.V., tekhn. red.

[Printing presses; designs and plans] Pechatnye mashiny; raschet i proektirovanie. Moskva, Mashgiz, 1963. 614 p. (MIRA 16:12)

(Printing press)

BEZHANOV, B.N. Prinimal uchastiye BEZHANOV, B.B., inzh.; KOL'TSOV, N.I., kand. tekhn.nauk, retsenzent; KUSNITSYN, G.I., kand. tekhn. nauk, red.; CHFAS, M.A., red. izd-va; BARDINA, A.A., tekhn. red.

[Pneumatic systems in the automation of technological processes] Pnevmaticheskie sistemy avtomatizatsii tekhnologicheskikh protsessov. Moskva, Mashgiz, 1963. 287 p. (MIRA 16:7)

(Pneumatic control)

KOL'TSOV, N.K.

Hereditary molecules. Biul. MOIP. Otd. biol. 70 no.4:75-104 Jl-Ag '65. (MIRA 18:9)

KOL'TSOV, N. M. (Belovo)

Technology of the rhythmic operation of stations and approach tracks. Zhel. dor. transp. 45 no.1:78-80 Ja '63.
(MIRA 16:4)

1. Zamestitel' nachal'nika otdela ekspluatatsii Belovskogo otdeleniya Zapadno-Sibirskoy dorogi.

(Railroads—Freight) (Coal—Transportation)

MOROZOVA, M.A., KOL'TSOV, N.S.

Chemistry and technology of copper oxychloride. [Trudy] NIUIF no.167:133-145 '60. (MIRA 13:8)
(Copper chlorides)
(Fungicides)

MOROZOVA, M.A., KOL'TSOV, N.S., TRUSHKINA, N.I., LAZAREVA, Ye.Ya.

Method of producing a copper subsulfate preparation. [Trudy] NIUIF no.167:151-155 '60. (MIRA 13:8)
(Copper sulfate) (Fungicides)

MOROZOVA, M.A., KOL'TSOV, N.S.

Ways of improving the quality of colloidal sulfur. [Trudy] NIUIF no.167:193-200 '60. (MIRA 13:8)
(Sulfur)

MOROZOVA, M.A.; KOL'TSOV, N.S.; TRUSHKINA, N.I.; ZUBOV, M.F.; GOLYSHIN, N.M.

Copper-containing fungicides for green plants. [Trudy] NIUIF no.164:38-40 '59. (MIRA 15:5)
(Fungicides) (Copper compounds)

KOGAN, L.M.; KOL'TSOV, N.S.; LITVINOV, N.D.

Apparatus for determining the solubilities of chlorine and other gases in liquids. Zhur.fiz.khim. 37 no.8:1914-1917 Ag '63. (MIRA 16:9)

1. Nauchnyy institut po udobreniyam i insektofungisidam.
(Chlorine) (Gases) (Solubility)

KOGAN, L.M.; KOL'TSOV, N.S.; LITVINOV, N.D.

Solubility of chlorine and carbon dioxide in hexachlorobutadiene. Zhur.fiz.khim. 37 no.8:1875-1877 Ag '63. (MIRA 16:9)

1. Nauchnyy institut po udobreniyam i insektofungisidam.
(Chlorine) (Carbon dioxide) (Butadiene)

KOL'TSOV N.

PERELYGIN, D.Ya.; KOL'TSOV, N.Ya., inzh.

Znamensk paper factories operate without a technical control section. Bum. prom. 32 no.12:25-26 D '57. (MIRA 11:1)

1. Direktor Znamenskikh bumazhnykh fabrik (for Perelygin).
(Znamensk--Paper industry)

KARAYEV, Ali-Ovsat; VOLIK, Aleksey Lukich; KOL'TSOV, Oleg Pavlovich; BUYANOVSKIY, N.I., red.; KAESHKOVA, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn. red.

[Drilling oil and gas wells; practice of the petroleum workers of Krasnodar Territory]Burenie neftianykh i gazovykh skvazhin; opyt neftianikov Krasnodarskogo kraia. Moskva, Gostoptekhizdat, 1962. 170 p. (MIRA 15:12)
(Krasnodar Territory—Oil well drilling)

KARAYEV, A.K.; KOL'TSOV, O.P.

Casing of deep wells under complex geological conditions.
Azerb.neft.khoz. 41 no.5:12-13 My '62. (MIRA 16:2)
(Kuban--Oil well casing)

KOL'TSOV, P.

Collective farms build multistoried buildings. Sel'. stroi. 15 no.1:16-17 Ja '61. (MIRA 14:3)

1. Nachal'nik Pskovskogo oblmezhkolkhozstroya.
(Kalinovka (Pskov Province)--Housing, Rural)

KOL'TSOV, P.A., kand.sel'skokhozyaystvennykh nauk

Possibilities for increasing agricultural production in the Far East. Zemledelie 6 no.4:6-12 Ap '58. (MIRA 11:4)
(Soviet Far East--Agriculture)

Acc 1964 Pitt.

VAYNSHTOK, Izmail Samuilovich; MIZROKHI, Yu.N., inzh., retsenzent; KOL'TSOV, P.Ye., inzh., red.; MOROZOVA, M.N., red. izd-va; GERASIMOVA, Ye.S., tekhn. red.

[Ultrasound and its use in machine manufacturing] Ul'trazvuk i ego primenenie v mashinostroenii. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 139 p. (MIRA 11:7)
(Machinery industry) (Ultrasonic waves--Industrial applications)

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5.3600 2209 S/153/60/003/005/004/016
B013/B058

AUTHORS: Aleskovskiy, V.B., Kol'tsov, S.I.

TITLE: Reaction of Carbon Tetrachloride With Active Silicon Dioxide. I. Dissociation Kinetics of CCl_4 in Silica Gel

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1960, Vol.3, No.5, pp. 852 - 856

TEXT: The dissociation of carbon tetrachloride in silica gel was studied this paper. Industrial silica gel was used. It was freed from iron by means of hydrochloric or sulfuric acid, washed with water and activated at a temperature of about 390°C. Carbon tetrachloride was dried over calcium chloride, and distilled twice. A fraction boiling at 76.7° -77°C was used. The experiments were made in the air current as well as in a nitrogen current cleaned of oxigen. An instrument shown in Fig.1 was used for studying the dissociation kinetics. The temperature dependence of carbon tetrachloride in activated silica gel is shown in Fig.2, where a similar dependence for quartz (3) is shown for comparison. It can be seen therefrom that the reaction of the samples treated with hydrochloric acid (1)

Reaction of Carbon Tetrachloride With Active Silicon Dioxide. I. Dissociation Kinetics of CCl_4 in Silica Gel

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occurs much more extensively than of those treated with sulfuric acid (2). A distinct salient point in the curves at 310°C is remarkable. This may point to a change of the reaction character. The peculiarities of structure and properties of silica gel, compared with quartz, appear most clearly on the kinetic dissociation curves for CCl_4, which were plotted in dry air medium (Fig.3). The presence of maxima at τ = 4 - 6 minutes is characteristic. Endurance tests (up to 14 hours) showed that the degree of dissociation of CCl_4 reached after about 30 minutes remained constant during the whole experiment. When repeating the experiments with the same sample (Fig.4), it was, however, established that the intensity of dissociation dropped gradually. At least two consecutive reactions can be inferred therefrom. The course of the calculated temperature dependence of the logarithms of the constants k_1 and k_2 (Fig.5) clearly points to a change of the reaction character at 300°C. The following cause of this change can be inferred from a comparison of experimental with published data: One reaction mechanism is replaced by another at 300°C. At experiments in pure nitrogen medium at temperatures slightly above 300°C, the separation of an extremely reactive

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Reaction of Carbon Tetrachloride With Active Silicon Dioxide. I. Dissociation Kinetics of CCl_4 in Silica Gel

chlorine-containing substance behind the silica-gel layer is observed. This substance has not yet been finally identified. It may be assumed that rather stable $\cdot CCl_3$ radicals are formed here (the life-time of these radicals being 1.18 sec? (Ref.9)), which are quickly dimerized in the absence of oxygen $2 \cdot CCl_3 \rightarrow C_2Cl_6$ and which do not react with aqueous aniline solution. There are 5 figures and 9 references: 3 Soviet, 2 German, 2 US, 1 British and 1 Swedish.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta. Kafedra analiticheskoy khimii (Leningrad Technological Institute imeni Lensovet . Department of Analytical Chemistry)

SUBMITTED: November 10, 1958

Card 3/3

KOL'TSOV, S.I.

Reaction of trichlorosilane with silica gel. Zhur.prikl.khim. 38 no.6:1384 Je '65. (MIRA 18:10)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KOL'TSOV, S.I.; ALESKOVSKIY, V.B.; GRIVA, Z.I., red.

[Silica gel, its structure and chemical properties] Silikagel', ego stroenie i khimicheskie svoistva. Leningrad, Goskhimizdat, 1963. 95 p. (MIRA 18:7)

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[illegible]N NR: AP5015886 UR/0080/65/038/006/1384/1384
547.245 + 661.183.7

K[illegible]'tsev, S. I.

Reaction of trichlorosilane with silica gel

[Zh]urnal prikladnoy khimii, v. 38, no. 6, 1[illegible]

[illegible] silica gel, organosilicon compound, tr[illegible]

[illegible] Industrial KSK silica gel was reacted with tr[illegible]silane vapors in a [illegible] dry air at 180C. Analysis of the product showed that it contained hydrogen [illegible] meq/g) and chlorine (1.57 ± 0.03 meq/g), the ratio of Cl_2 to H_2 being close [illegible] 98). By comparing the content of new functional groups with the content of water (in the form of OH groups) in the original silica gel, one can see that [illegible] C_{H_2O}. Hence, the reaction takes place as follows:

$$\equiv Si-OH \quad Cl \ldots \quad O \ldots \quad \equiv Si-OH \quad Cl \ldots H \ldots \qquad (1)$$

NR: AP5015886

silica gel reacts with $HSiCl_3$, the latter is hydrolyzed by the OH groups of the ach $HSiCl_3$ molecule reacts with two OH groups, and thus the silicon-oxygen f silica gel is expanded, and new functional groups -Cl and -H linked to the atom are formed. The product is fairly stable to heat (withstands heating 100C). The functional hydrogen on the surface of the silica gel manifests strong reducing properties. For example, when the hydrogenated silica gel reacts with an $AgNO_3$ solution, metallic silver is formed. Orig. art. has 2 formulas.

ASSN: Leningradskiy tekhnologicheskiy institut imeni Lensoveta (Leningrad al Institute)

SUBMITTED: 28Mar64 ENCL: 00 SUB CODE: MT

NR REF SOV: 002 OTHER: 000

LIVEROVSKAYA, N.V.; KOL'TSOV, S.I.

Effect of adsorbed potassium ions on the dehydration of silica gel. Zhur. fiz. khim. 39 no.3:773-774 Mr '65. (MIRA 18:7)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta.

KOL'TSOV, S. K.

K obosnovaniiu vybora zazora u porshnevykh maslosbrasyvaiushchikh kolets v bystrokhodnykh dvigateliakh. (Vestn. Mash., 1949, no. 4, p. 12-13)

Judicious choice of gaps for oil discarding piston rings in high-speed engines.

DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

KOL'TSOV, S. K.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

Name	Title of Work	Nominated by
Kol'tsov, S. K. Kapustin, I. I.	"Repair of Light Industrial Equipment" publ. 1951, 363 p. Moskva. Gos. nauchno-tekhn. izd-vo legkoi promyshl.	All-Union Correspondence Institute of the Textile and Light Industry

SO: W-30604, 7 July 1954

KOL'TSOV,S.K.

[Principles in assembling machine units and mechanisms] Osnovy sborki uzlov i mekhanizmov mashin. Moskva, Gos. nauchno-tekhn. izd-vo mashinostr. lit-ry, 1955. 271 p. (MLRA 8:7)
(Machinery--Construction)

KOL'TSOV, S.K., starshiy prepodavatel'

Setting and aligning driving shafts in assembling machines. Nauch.dokl.vys.shkoly; mash.i prib. no.2:157-161 '58. (MIRA 12:10)

1. Predstavleno kafedroy "Proyektirovaniya mashin i avtomatov" Vsesoyuznogo zaochnogo instituta tekstil'noy i legkoy promyshlennosti.

(Machine-shop practice)

KOL'TSOV, Stepan Kuz'mich; KAPUSTIN, Ivan Il'ich; MUKHANOV, P.Ya., retsenzent; NEBOL'SIN, A.M., retsenzent; DUKHOVNYY, F.N., red.; VINOGRADOVA, G.A., tekhn. red.

[Assembly of units and mechanisms of machinery and automatic machines] Sborka uzlov i mekhanizmov mashin i avtomatov. Moskva, Izd-vo nauchno-tekhn.lit-ry RSFSR, 1961. 377 p. (MIRA 14:12)
(Automation) (Assembly-line methods) (Machine-shop practice)

KOL'TSOV, SERGEII VASIL'YEVICH.

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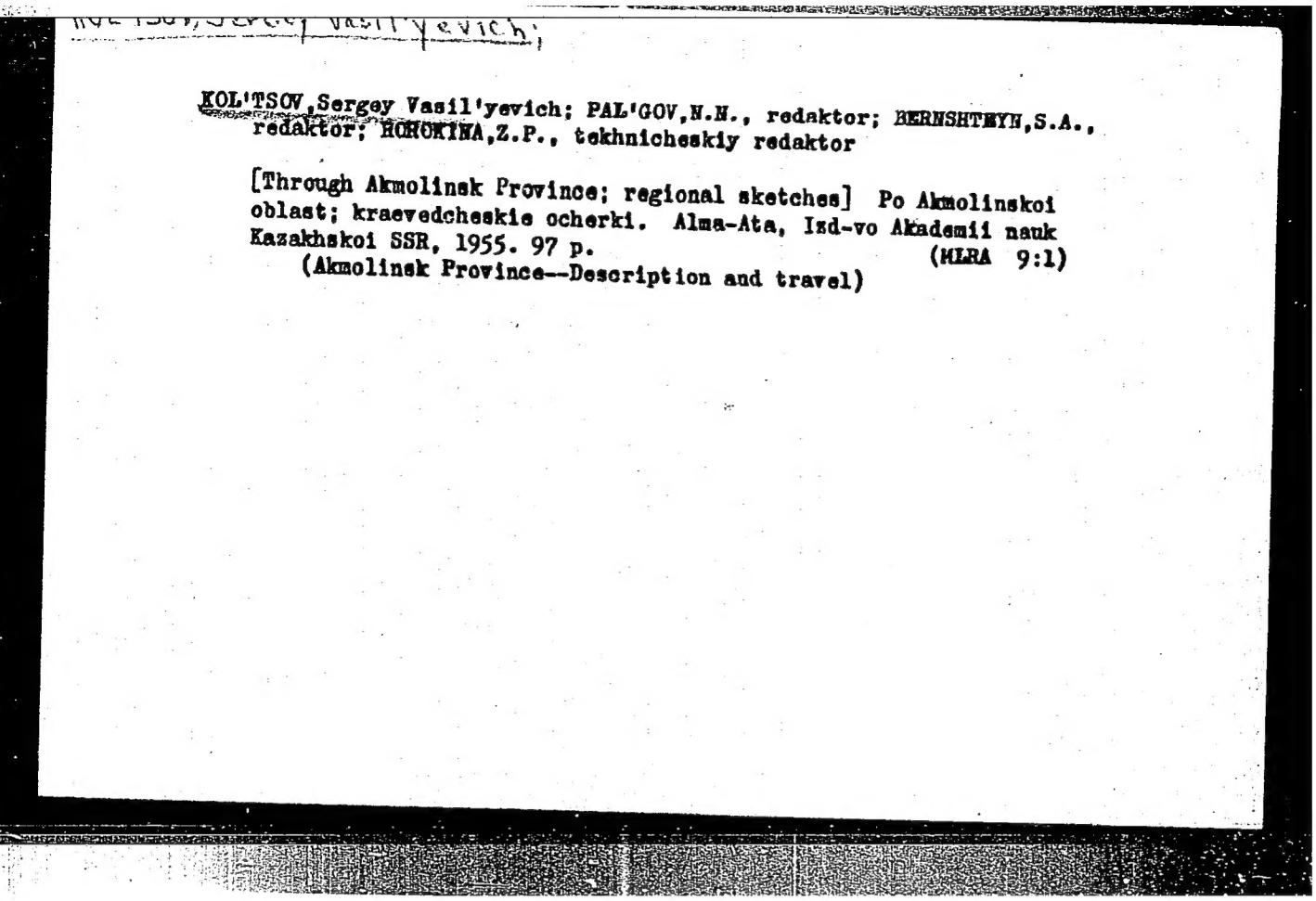
AKMOLINSKAYA OBLAST'-UCHASTNITSA VSESOYUZNOY SEL'SKOKHOZYAYSTVENNOY VYSTAVKI (AKMOL INSKAYA OBLAST-PARTICIPANT IN THE ALL UNION AGRICULTURAL SHOW, BY) S. V. KOL'TSOV (1)1 .

TYAGUSEV. ALMA-ATA, KAZGOSIZDAT, 1955.

34 P. ILLUS., TABLES.

ON COVER: UCHASTNIKI VSKHV.



KOL'TSOV, Sergey Vasil'yevich; PAL'GOV, N.N., redaktor; BERNSHTEYN, S.A., redaktor; HOROKINA, Z.P., tekhnicheskiy redaktor

[Through Akmolinsk Province; regional sketches] Po Akmolinskoi oblasti; kraevedcheskie ocherki. Alma-Ata, Izd-vo Akademii nauk Kazakhskoi SSR, 1955. 97 p. (MLRA 9:1)
(Akmolinsk Province--Description and travel)

KOL'TSOV, Sergey Vasil'yevich

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